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APPLICATION N	IO. 1	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/677,691		10/02/2000	Robert G. Arsenault	PD-200017	3401
20991	7590	11/16/2004	•	EXAMINER	
		ROUP INC	SHANG, ANNAN Q		
PATENT P O BOX		ADMINISTRATION	RE/R11/A109	ART UNIT	PAPER NUMBER
		90245-0956		2614	
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Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)	Applicant(s)			
		09/677,691	ARSENAULT ET AL.	ARSENAULT ET AL.			
	Office Action Summary	Examiner	Art Unit				
		Annan Q Shang	2614				
Period fo	The MAILING DATE of this communication or Reply	n appears on the cover sheet w	ith the correspondence address	-			
THE - Exter after - If the - If NO - Failu Any	ORTENED STATUTORY PERIOD FOR R MAILING DATE OF THIS COMMUNICATI usions of time may be available under the provisions of 37 C SIX (6) MONTHS from the mailing date of this communicatic period for reply specified above is less than thirty (30) days, period for reply is specified above, the maximum statutory per to reply within the set or extended period for reply will, by eply received by the Office later than three months after the ed patent term adjustment. See 37 CFR 1.704(b).	ON. FR 1.136(a). In no event, however, may a con. a reply within the statutory minimum of thir period will apply and will expire SIX (6) MON statute, cause the application to become Al	reply be timely filed ty (30) days will be considered timely. ITHS from the mailing date of this communical BANDONED (35 U.S.C. § 133).	tion.			
Status							
1)[🛛	Responsive to communication(s) filed on	08 October 2004.	4				
2a)□	This action is FINAL . 2b)⊠	This action is non-final.					
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
	closed in accordance with the practice un	der <i>Ex parte Quayle</i> , 1935 C.D). 11, 453 O.G . 213 .				
Disposition of Claims							
4)⊠	Claim(s) 1-49 is/are pending in the application	ation.	(
	4a) Of the above claim(s) is/are wit						
5)□	5) Claim(s) is/are allowed.						
6)🖂	Claim(s) <u>1-49</u> is/are rejected.						
7)	Claim(s) is/are objected to.						
8)□	Claim(s) are subject to restriction a	and/or election requirement.					
Applicati	on Papers						
9)	The specification is objected to by the Exa	miner.					
10)⊠ The drawing(s) filed on <u>02 October 2002</u> is/are: a)⊠ accepted or b)□ objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority (ınder 35 U.S.C. § 119						
	Acknowledgment is made of a claim for fo ☐ All b)☐ Some * c)☐ None of:	reign priority under 35 U.S.C. (3 119(a)-(d) or (f).	,			
	1. Certified copies of the priority documents have been received.						
	2. Certified copies of the priority documents have been received in Application No						
	3. Copies of the certified copies of the		received in this National Stage				
application from the International Bureau (PCT Rule 17.2(a)).							
* See the attached detailed Office action for a list of the certified copies not received.							
Attachmen	t(s)						
	e of References Cited (PTO-892)		Summary (PTO-413)				
3) 🛛 Infor	e of Draftsperson's Patent Drawing Review (PTO-94 mation Disclosure Statement(s) (PTO-1449 or PTO/S r No(s)/Mail Date <u>10/04; 01/04;4/01</u> .		s)/Mail Date nformal Patent Application (PTO-152) 				
S Patent and T	radamark Office						

Art Unit: 2614

DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 2. Claims 1-49, are rejected under 35 U.S.C. 102(e) as being anticipated by Eyer et al (6,401,242).

As to claim 1, note the **Eyer et al** reference figures 1 and 2, disclose method and apparatus for delivering an Interactive Program Guide (IPG) data (global and local programming services) to integrated receiver-decoders (IRDs) in a decoder population via a cable or satellite network and further disclose in a broadcasting system having a first service network (National or Global Network) broadcasting a first signal having a first set of program guide information (National or Global IPG) describing at least a portion of the first set of program material, and second service network (Regional or Local Network) broadcasting a second signal having a second set of program material and second program guide (Regional or Local IPG) describing at least a portion of the second set of program material, where the first broadcast signal (National or Global) and the second broadcast signal (Regional or Local) each includes a service channels uniquely described by a service channel identifier, a method of providing at least a

Art Unit: 2614

portion of the second program guide information to a receiving station receiving the first signal, comprising the steps of:

the claimed "mapping at least a portion of the first program guide information to a first service channel of the first broadcast signal" is met by IPG Translator (IPG-Trans) 225 (figs. 1, 4, col. 5, lines 44-67 and col. 8, lines 6-32), note that CATV 140 (col. 6, line 23-31) includes IPG-Trans 220 a headend system, which receives National or Global-IPG data "first program guide information" and Regional or Local-IPG data "second program guide information" and uses channel grouping criteria, such as common source, field of interest, etc., (col. 6, lines 6-22 and col. 15, line 54-col. 16, line 3) to form Bundles "portion" of Global-IPG data and "portion" of Local-IPG data and maps portion of the Global-IPG and Local-IPG to service channels "first service channel" and "second service channel" (col. 17, line 49-col. 18, line 11) of transport stream "first broadcast signal" (fig. 4, col. 10, lines 10-31, Bundles 400-415 and col. 12, line 31-col. 13, line 1+) and transmits the broadcast signal to IRDs 130 "receiving station," that allows the IRDs 130 to recover only IPG-data for its region (col. 8, lines 57-63), note that the service channels, such as data service channel, text service channel, etc., including Global-IPG data service channel or Local-IPG data service channels are all logically offset by the difference between assigned service channel identification numbers or values, which enables data, associated with a particular services channel to be received, stored or processed accordingly (col. 17, line 49-col. 18, line 11), Furthermore Global-IPG and Local-IPG data are offset by duplicative channels (col. 10.

Art Unit: 2614

lines 33-38), by a 24-bit number (col. 15, line 66-col. 16, line 3) and also by gaps in the program schedules (col. 18, lines 15-44).

As to claim 2, Eyer further discloses where Local-IPG service channel is logically offset by an amount specified in Global-IPG data (col. 16, lines 37-55).

As to claim 3, Eyer further discloses where Bundles of the Local-IPG data is transmitted at a different rate than the Global-IPG data (col. 17, line 49-col. 18, line 7), note the Trickle Bundle parameter, specifies the frequency at which each bundle are transmitted in each transmission cycle.

As to claims 4 and 5, Eyer further discloses where the first program guide information describes program material to be broadcast during a first time period, and the second program guide information describes program material to be broadcast during a second time period and where the second time is of different length than the first time period (col. 18, line 50-col. 19, line 8).

As to claim 6, Eyer further discloses where IRDs 130 receives the first signal and stores in RAM 340 or RAM 350, the Global-IPG data and the Local-IPG data for subsequent retrieval (fig. 3, col. 6, lines 38-67 and col. 9, lines 24-28 and lines 53-col. 10, line 9).

As to claim 7, Eyer further discloses where IRDs 130 merging the Global-IPG data and the Local-IPG data to produce a merged program guide, and retrieving the merged program guide in response to a subscriber request (figs. 3, 4, col. 8, lines 39-67 and col. 10, lines 10-38).

Art Unit: 2614

As to claim 8, Eyer further discloses where the Local-IPG data includes station names or IDs, such as, ABC, NBC, CBS, CNN, Disney channel, etc., (fig. 2, col. 5, lines 60-67, col. 7, lines 36-45 and col. 9, lines 35-39) "data identifying the service network" transmitting the Local-IPG data and the Global-IPG data and the Local-IPG data is merged according to a comparison between the data and IRD 130 configuration value, such as an address, identification number, geographical location, etc., associated with IRD 130 (col. 8, lines 57-67 and col. 10, lines 10-38).

As to claim 9, note the **Eyer et al** reference figures 1 and 2, disclose method and apparatus for delivering an Interactive Program Guide (IPG) data (global and local programming services) to integrated receiver-decoders (IRDs) in a decoder population via a cable or satellite network and further disclose in a broadcasting system having a first a first service network (National or Global Network) broadcasting a first signal having a first set of program material and first program guide information (National or Global-IPG data) describing at least a portion of the first set of program material, and a second service network (Regional or Local Network) broadcasting a second signal having a second set of program material and second program guide information (Regional or Local-IPG data) describing at least a portion of the second set of program material, where the first broadcast signal and second broadcast signal each include service channels uniquely described by a service channel identifier, a method of obtaining at least a portion of the second program guide information via the first signal, comprising the steps of:

Art Unit: 2614

the claimed "receiving the first signal..." is met by IRD 130 (fig. 1, 4, col. 5, lines 44-67, col. 9, lines 24-39 and col. 10, lines 10-38), which receives a data stream "first signal" of National or Global-IPG data "first program guide information" transmitted in Bundles "portion" on Global-IPG data service channel;

the claimed "a second service channel..." is met by Regional or Local-IPG data service channel, which transmits Bundles "portion" of Local-IPG data "second program guide information" (col. 5, lines 44-67, col. 9, lines 24-39 and col. 10, lines 10-38) and presenting the Global-IPG data and the Local-IPG data to the subscriber (col. 8, lines 39-63), note that the service channels, such as data service channel, text service channel, etc., including Global-IPG data service channel or Local-IPG data service channels are all logically offset by the difference between assigned service channel identification numbers or values, which enables data, associated with a particular services channel to be received, stored or processed accordingly (col. 17, line 49-col. 18, line 11), Furthermore Global-IPG and Local-IPG data are offset by duplicative channels (col. 10, lines 33-38), by a 24-bit number (col. 15, line 66-col. 16, line 3) and also by gaps in the program schedules (col. 18, lines 15-44).

Claim 10 is met as previously discussed with respect to claim 2.

Claim 11 is met as previously discussed with respect to claim 3.

Claim 12-13 is met as previously discussed with respect to claims 4 and 5.

Claim 14 is met as previously discussed with respect to claim 6.

Claim 15 is met as previously discussed with respect to claim 7.

Claim 16 is met as previously discussed with respect to claim 8.

Art Unit: 2614

As to claim 17, note the **Eyer et al** reference figures 1 and 2, disclose method and apparatus for delivering an Interactive Program Guide (IPG) data (global and local programming services) to integrated receiver-decoders (IRDs) in a decoder population via a cable or satellite network and further disclose in a broadcasting system having a first a first service network (National or Global Network) broadcasting a first signal having a first set of program material and first program guide information (National or Global-IPG data) describing at least a portion of the first set of program material, and a second service network (Regional or Local Network) broadcasting a second signal having a second set of program material and second program guide information (Regional or Local-IPG data) describing at least a portion of the second set of program material, where the first broadcast signal and second broadcast signal each include service channels uniquely described by a service channel identifier, an apparatus of obtaining at least a portion of the second program guide information to a receiver station (IRD 130) receiving the first signal, comprising:

the claimed "a program guide system for mapping at least a portion of the first guide information to a first service channel of the first broadcast signal..." is met by is met by IPG Translator (IPG-Trans) 225 (figs. 1, 4, col. 5, lines 44-67 and col. 8, lines 6-32), note that CATV 140 (col. 6, line 23-31) includes IPG-Trans 220 a headend system, which receives National or Global-IPG data "first program guide information" and Regional or Local-IPG data "second program guide information" and uses channel grouping criteria, such as common source, field of interest, etc., (col. 6, lines 6-22 and col. 15, line 54-col. 16, line 3) to form Bundles "portion" of Global-IPG data and "portion"

Art Unit: 2614

of Local-IPG data and maps portion of the Global-IPG and Local-IPG to service channels "first service channel" and "second service channel" (col. 17, line 49-col. 18, line 11) of transport stream "first broadcast signal" (fig. 4, col. 10, lines 10-31, Bundles 400-415 and col. 12, line 31-col. 13, line 1+) and the claimed "a transmitter..." is met by Transmitter 110 (fig. 2 and col. 6, lines 47-52), which transmits the broadcast signal to IRDs 130 "receiving station," that allows the IRDs 130 to recover only IPG-data for its region (col. 8, lines 57-63), note that the service channels, such as data service channel, text service channel, etc., including Global-IPG data service channel or Local-IPG data service channels are all logically offset by the difference between assigned service channel identification numbers or values, which enables data, associated with a particular services channel to be received, stored or processed accordingly (col. 17, line 49-col. 18, line 11), Furthermore Global-IPG and Local-IPG data are offset by duplicative channels (col. 10, lines 33-38), by a 24-bit number (col. 15, line 66-col. 16, line 3) and also by gaps in the program schedules (col. 18, lines 15-44).

Claim 18 is met as previously discussed with respect to claim 2.

Claim 19 is met as previously discussed with respect to claim 3.

Claim 20-21 is met as previously discussed with respect to claims 4 and 5.

Claim 22 is met as previously discussed with respect to claim 6.

Claim 23 is met as previously discussed with respect to claim 7.

Claim 24 is met as previously discussed with respect to claim 8.

As to claim 25, note the **Eyer et al** reference figures 1 and 2, disclose method and apparatus for delivering an Interactive Program Guide (IPG) data (global and local

Art Unit: 2614

programming services) to integrated receiver-decoders (IRDs) in a decoder population via a cable or satellite network and further disclose in a broadcasting system having a first a first service network (National or Global Network) broadcasting a first signal having a first set of program material and first program guide information (National or Global-IPG data) describing at least a portion of the first set of program material, and a second service network (Regional or Local Network) broadcasting a second signal having a second set of program material and second program guide information (Regional or Local-IPG data) describing at least a portion of the second set of program material, where the first broadcast signal and second broadcast signal each include service channels uniquely described by a service channel identifier, an apparatus for obtaining at least a portion of the second program guide information via the first signal, comprising the steps:

the claimed "a tuner for receiving the first signal..." is met by Data Receiver of IRD 130 (fig. 1, 4, col. 5, lines 44-67, col. 9, lines 24-39 and col. 10, lines 10-38), which includes a Tuner for receiving a data stream "first signal" of National or Global-IPG data "first program guide information" transmitted in Bundles "portion" on Global-IPG data service channel;

the claimed "a second service channel..." is met by Regional or Local-IPG data service channel, which transmits Bundles "portion" of Local-IPG data "second program guide information" (col. 5, lines 44-67, col. 9, lines 24-39 and col. 10, lines 10-38) and the claimed "a presentation device..." is met by Display 195 (figs. 1, 3, col. 7, lines 51-56 and col. 8, lines 39-46), which presents the Global-IPG data and the Local-IPG data

Art Unit: 2614

to the subscriber (col. 8, lines 39-63), note that the service channels, such as data service channel, text service channel, etc., including Global-IPG data service channel or Local-IPG data service channels are all logically offset by the difference between assigned service channel identification numbers or values, which enables data, associated with a particular services channel to be received, stored or processed accordingly (col. 17, line 49-col. 18, line 11), Furthermore Global-IPG and Local-IPG data are offset by duplicative channels (col. 10, lines 33-38), by a 24-bit number (col. 15, line 66-col. 16, line 3) and also by gaps in the program schedules (col. 18, lines 15-44).

Claim 26 is met as previously discussed with respect to claim 2.

Claim 27 is met as previously discussed with respect to claim 3.

Claim 28-29 is met as previously discussed with respect to claims 4 and 5.

Claim 30 is met as previously discussed with respect to claim 6.

Claim 31 is met as previously discussed with respect to claim 7.

Claim 32 is met as previously discussed with respect to claim 8.

As to claim 33, note the **Eyer et al** reference figures 1 and 2, disclose method and apparatus for delivering an Interactive Program Guide (IPG) data (global and local programming services) to integrated receiver-decoders (IRDs) in a decoder population via a cable or satellite network and further disclose in a broadcasting system having a first a first service network (National or Global Network) broadcasting a first signal having a first set of program material and first program guide information (National or Global-IPG data) describing at least a portion of the first set of program material, and a

Art Unit: 2614

second service network (Regional or Local Network) broadcasting a second signal having a second set of program material and second program guide information (Regional or Local-IPG data) describing at least a portion of the second set of program material, where the first broadcast signal and second broadcast signal each include service channels uniquely described by a service channel identifier, an apparatus for providing at least a portion of the second program guide information to a receiver station (IRD 130) receiving the first signal, comprising:

the claimed "means for mapping at least a portion of the first program guide information to a first service channel of the first broadcast signal" is met by IPG Translator (IPG-Trans) 225 (figs. 1, 4, col. 5, lines 44-67 and col. 8, lines 6-32), note that CATV 140 (col. 6, line 23-31) includes IPG-Trans 220 a headend system, which a means for receives and mapping National or Global-IPG data "first program guide information" and Regional or Local-IPG data "second program guide information" and uses channel grouping criteria, such as common source, field of interest, etc., (col. 6, lines 6-22 and col. 15, line 54-col. 16, line 3) to form Bundles "portion" of Global-IPG data and "portion" of Local-IPG data and maps portion of the Global-IPG and Local-IPG to service channels "first service channel" and "second service channel" (col. 17, line 49-col. 18, line 11) of transport stream "first broadcast signal" (fig. 4, col. 10, lines 10-31, Bundles 400-415 and col. 12, line 31-col. 13, line 1+) and the claimed "means for transmitting..." is met by Transmitter 110 (fig. 2 and col. 6, lines 47-52), which is a means for transmitting the broadcast signal to IRDs 130 "receiving station," that allows the IRDs 130 to recover only IPG-data for its region (col. 8, lines 57-63), note that the

Art Unit: 2614

service channels, such as data service channel, text service channel, etc., including Global-IPG data service channel or Local-IPG data service channels are all logically offset by the difference between assigned service channel identification numbers or values, which enables data, associated with a particular services channel to be received, stored or processed accordingly (col. 17, line 49-col. 18, line 11), Furthermore Global-IPG and Local-IPG data are offset by duplicative channels (col. 10, lines 33-38), by a 24-bit number (col. 15, line 66-col. 16, line 3) and also by gaps in the program schedules (col. 18, lines 15-44).

Claim 34 is met as previously discussed with respect to claim 2.

Claim 35 is met as previously discussed with respect to claim 3.

Claim 36-37 is met as previously discussed with respect to claims 4 and 5.

Claim 38 is met as previously discussed with respect to claim 6.

Claim 39 is met as previously discussed with respect to claim 7.

Claim 40 is met as previously discussed with respect to claim 8.

As to claim 41, note the **Eyer et al** reference figures 1 and 2, disclose method and apparatus for delivering an Interactive Program Guide (IPG) data (global and local programming services) to integrated receiver-decoders (IRDs) in a decoder population via a cable or satellite network and further disclose in a broadcasting system having a first a first service network (National or Global Network) broadcasting a first signal having a first set of program material and first program guide information (National or Global-IPG data) describing at least a portion of the first set of program material, and a second service network (Regional or Local Network) broadcasting a second signal

Art Unit: 2614

having a second set of program material and second program guide information (Regional or Local-IPG data) describing at least a portion of the second set of program material, where the first broadcast signal and second broadcast signal each include service channels uniquely described by a service channel identifier, an apparatus for obtaining at least a portion of the second program guide information via the first signal, comprising:

the claimed "means for receiving the first signal..." is met by IRD 130 (fig. 1, 4, col. 5, lines 44-67, col. 9, lines 24-39 and col. 10, lines 10-38), which is a means for receiving a data stream "first signal" of National or Global-IPG data "first program guide information" transmitted in Bundles "portion" on Global-IPG data service channel:

the claimed "a second service channel..." is met by Regional or Local-IPG data service channel, which transmits Bundles "portion" of Local-IPG data "second program guide information" (col. 5, lines 44-67, col. 9, lines 24-39 and col. 10, lines 10-38) and the claimed "means for presentation..." is met by Display 195 (figs. 1, 3, col. 7, lines 51-56 and col. 8, lines 39-46), which presents the Global-IPG data and the Local-IPG data to the subscriber (col. 8, lines 39-63), note that the service channels, such as data service channel, text service channel, etc., including Global-IPG data service channel or Local-IPG data service channels are all logically offset by the difference between assigned service channel identification numbers or values, which enables data, associated with a particular services channel to be received, stored or processed accordingly (col. 17, line 49-col. 18, line 11), Furthermore Global-IPG and Local-IPG

Art Unit: 2614

data are offset by duplicative channels (col. 10, lines 33-38), by a 24-bit number (col. 15, line 66-col. 16, line 3) and also by gaps in the program schedules (col. 18, lines 15-44).

Claim 42 is met as previously discussed with respect to claim 2.

Claim 43 is met as previously discussed with respect to claim 3.

Claim 44-45 is met as previously discussed with respect to claims 4 and 5.

Claim 46 is met as previously discussed with respect to claim 6.

Claim 47 is met as previously discussed with respect to claim 7.

Claim 48 is met as previously discussed with respect to claim 8.

As to claim 49, note the **Eyer et al** reference figures 1 and 2, disclose method and apparatus for delivering an Interactive Program Guide (IPG) data (global and local programming services) to integrated receiver-decoders (IRDs) in a decoder population via a cable or satellite network and further disclose in a broadcasting system having a first service network (National or Global Network) broadcasting a first signal having a first set of program guide information (National or Global IPG) describing at least a portion of the first set of program material, and second service network (Regional or Local Network) broadcasting a second signal having a second set of program material and second program guide (Regional or Local IPG) describing at least a portion of the second set of program material, where the first broadcast signal (National or Global) and the second broadcast signal (Regional or Local) each includes a service channels uniquely described by a service channel identifier, a method of providing at least a

Art Unit: 2614

portion of the second program guide information to a receiving station receiving the first signal, comprising the steps of:

the claimed "mapping at least a portion of the first program guide information to a first service channel of the first broadcast signal" is met by IPG Translator (IPG-Trans) 225 (figs. 1, 4, col. 5, lines 44-67 and col. 8, lines 6-32), note that CATV 140 (col. 6, line 23-31) includes IPG-Trans 220 a headend system, which receives National or Global-IPG data "first program guide information" and Regional or Local-IPG data "second program guide information" and uses channel grouping criteria, such as common source, field of interest, etc., (col. 6, lines 6-22 and col. 15, line 54-col. 16, line 3) to form Bundles "portion" of Global-IPG data and "portion" of Local-IPG data and maps portion of the Global-IPG and Local-IPG to service channels "first service channel" and "second service channel" (col. 17, line 49-col. 18, line 11) of transport stream "first broadcast signal" (fig. 4, col. 10, lines 10-31, Bundles 400-415 and col. 12, line 31-col. 13, line 1+) and transmits the broadcast signal to IRDs 130 "receiving station," that allows the IRDs 130 to recover only IPG-data for its region (col. 8, lines 57-63), note that the service channels, such as data service channel, text service channel, etc., including Global-IPG data service channel or Local-IPG data service channels are all logically offset by the difference between assigned service channel identification numbers or values, which enables data, associated with a particular services channel to be received, stored or processed accordingly (col. 17, line 49-col. 18, line 11), Furthermore Global-IPG and Local-IPG data are offset by duplicative channels (col. 10,

Art Unit: 2614

lines 33-38), by a 24-bit number (col. 15, line 66-col. 16, line 3) and also by gaps in the program schedules (col. 18, lines 15-44).

Conclusion

3. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Gordon et al (6,754,905) disclose data structure and methods for providing an interactive program guide.

Klosterman (6,072,983) discloses merging multi-source information in a television system.

Thomas et al (5,666,645) disclose data management and distribution system and method for an electronic television program guide.

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to **Annan Q Shang** whose telephone number is **703-305-2156**. The examiner can normally be reached on **700am-500pm**.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, **John W Miller** can be reached on **703-305-4795**. The fax phone number for the organization where this application or proceeding is assigned is **703-872-9306**.

Art Unit: 2614

Page 17

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the **Electronic Business Center (EBC) at 866-217-9197 (toll-free).**

Annan Q. Shang.

SUPERVISORY PATENT EXAMINER

TECHNOLOGY CENTER 2600